OOP (CENG 323) PROJECT REPORT

**Before using the application!!!**

In order for the application to work with SQL, the contents of the 'database/sql.py' file must be updated with the SQL access information on your computer. MySQL or MariaDB can be used. Database backup is rooted as 'project.sql'. The application can only be run in the main.py file

**1.TARGETS**

In this project, we first started to work on design and ideas. Since we have products and materials, we thought that the most logical project would be on food. In our project, we focused on an idea where we can see the dishes and the materials from which the dishes are made. Then we determined the products and materials. We started to prepare an interface design together. Then we came up with a name for the project and named it “CSSP (cooking school, stock programming”.

**2.MATERIALS AND METHODS**

In this Project:

1. Open cv
2. Tkinter
3. SQL (data base)
4. Python 3.10

We use them.

**3. DATA BASE (SQL)**

We planned to learn SQL because it would be more complicated to extract information from excel and it would be better for us to learn SQL as well. We spent a few days learning SQL. And we created the data base with SQL.

**4. TASK DISTRIBUTION**  
  
In general, we tried to complete the project together with 4 friends. Because the files are combined with each other in a common file (main.py), we did not want any information confusion. The reason we used this method was because of the research we did in the first place. Research result all in one file. When we wrote the project, it would be difficult to read and it would create information confusion.

**5. THE PLACES WE HAD DIFFICULTY**  
  
We wanted to add images to the buttons we created, but we couldn't. Then we started searching and we realized that it was a python error. After learning the cause of the error, we made changes in the importing part and solved the problem in this way.

**6.WHAT WAS DONE IN THE PROJECT**

We provided (n to n) relationship within the database.

Multi-relationship provided.

Tkinter grid structure used.

Abstrackt class used.

Inherited between product and raw materials classes.

Override operation done.

Data enhanced as extandebla.

**7.SOURCE**

* [**https://realpython.com/python-gui-tkinter/**](https://realpython.com/python-gui-tkinter/)
* [**https://docs.opencv.org/4.x/**](https://docs.opencv.org/4.x/)
* [**https://dev.mysql.com/doc/**](https://dev.mysql.com/doc/)

**8. WHO PREPARED THE PROJECT**

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